

ABSTRACT

The large span buildings comprising no ordinary beams and columns are formed of vertical load-bearing composite wall-panels and composite floors, both comprising
5 two concrete layers interconnected by steel strip webs. The stiff horizontal plane formed of assembled roof/ceiling units, supported by wall-panels, connected to both gables restrains transversal movement of longitudinally arranged wall-panels attached tops, bracing them simultaneously against sideway and lessening their buckling lengths. Floors, if any applied, being rigidly connected to the vertical
10 panels additionally improve stability of the global structure. Hereby invented composite wall-panel and floor are adapted to the same purpose. The global structure, being braced in that way, behaves as a rigid box made of slender panels.